



QC Corporation

Pallet # 1

1-20-11  
per Art Belton Waste Treatment  
c: D Shoemaker  
Pikesville Plaza Building, Suite 502  
600 Reisterstown Road  
Baltimore, Maryland 21208  
Telephone: (301) 486-0010  
Fax: (301) 486-0895

**MATERIAL SAFETY DATA SHEET**  
**Ferrous Sulfate**  
**Heptahydrate**

Product/Material: Ferrous Sulfate Heptahydrate  
Manufacturer's Name: QC Corporation  
Address: Pikesville Plaza Building - Suite 502  
600 Reisterstown Road  
Emergency Tel. No: Baltimore, Maryland 21208 (301) 486-0010  
Date Prepared: January 30, 1988

**Section I - Product Identification**

Trade Name: Ferrous Sulfate Heptahydrate  
Synonym: Copperas, Green Vitriol, Iron Vitriol  
Chemical Family: Iron (II) Sulfate  
Formula:  $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$   
CAS: 7720-78-7  
HMIS: H1 FO RO, Personal Protection Code - E  
(Safety glasses, gloves, dust respirators)  
DOT Category: ORME (RQ 1000 pounds)

**Section II - Hazardous Ingredients**

Ferrous Sulfate Heptahydrate  $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$   
OSHA PEL N.A.  
ACGIH TLV (1979) Rat. Oral LD50: 1480 mg/Kg

**Section III - Physical Data**

Boiling Point: Decomposition at 300° C  
Vapor Pressure (mm Hg): 0.  
Vapor Density: N.A.  
Solubility in Water: 103 gms. in 100 ml water @ 140° F  
Appearance & Odor: Light Blue-green, Acidic or Sour  
Specific Gravity: 1.899 14° / 8° C  
Evaporation Rate: N.A.  
Melting Point: 300° C

**Section IV - Fire and Explosion Hazard Data**

Flash Point: None  
Flammable Limits: N.A.  
LEL: N.A.  
UEL: N.A.  
Extinguishing Media: N.A.  
Special Firefighting Procedures: None or N.A.  
Unusual Fire & Explosion Hazards: None

**Section V - Reactivity Data**

Stability: Stable  
Incompatibility: Oxidizing Agents and Alkalies  
Conditions to Avoid: Extremely high temperatures  
Hazardous Decomposition Products: Productive of sulfur oxides, i.e.:  $\text{SO}_2$  and  $\text{SO}_3$   
Hazardous Polymerization: N.A.

"Quality and Service Our Product"

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#### Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation (Yes)    Skin (Yes)    Ingestion (yes)
Health Hazards (Acute and Chronic):	
Inhalation:	Irritation to trachea and lungs, breathing difficulty.
Skin:	Irritation to skin, very irritating to eyes.
Ingestion:	G.I. track irritation, shock, liver damage, tachycardia and death.
Carcinogenicity:	Not established.
Signs and Symptoms of Exposure:	Irritation or itching, stinging of eyes, breathing problems, stomach ache, acidic or sour taste.
Medical Conditions Generally Aggravated by Exposure:	Dermatitis, asthma, conjunctivitis, stomach or digestive problems.
Emergency and First Aid Procedures:	Flood skin and eyes with water for 15 minutes minimum, remove to fresh air, cover if in shock, remove to physicians care.

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#### Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:	Sweep up and repackage or place in receptacle for future disposal.
Waste Disposal Method:	Remove to properly designated landfill or, if in solution, precipitate with alkali and filter off iron for removal to landfill with pH adjustments of the filtrate and discharge to sewer.
Precautions to be Taken in Handling & Storage:	Wear gloves, safety goggles, breathing mask and coveralls when handling. Stored materials should be placed in a dry and reasonably temperatured area, preferably below 75° F to prevent chances of caking.
Other Precautions:	None

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#### Section VIII - Control Measures

Respiratory Protection:	Dust Mask	
Ventilation:	Local Exhaust - None	Special - None
	Mechanical - None	Other - None
Protective Gloves:	Work Gloves	
Eye Protection:	Safety Goggles	
Clothing or Equipment:	Coveralls	
Work/Hygienic Practices:	Available safety showers as well as end of shift clean-up facilities.	